# HP DesignJet T650 24-in Printer



Simply the world's easiest large-format plotters<sup>1</sup>—affordability without tradeoffs



### Extreme simplicity

- Print multi-size A3 and A1 projects automatically, without manually switching the media source.
- Save time with the world's easiest job
- Print with confidence you'll get the results you expect with an intuitive driver and true print preview.

### Fits your office and budget

- Save space with the world's smallest plotters<sup>4</sup> designed to fit your office, including a built-in
- Use up to 95% less ink for routine maintenance vs competitor and get up to 100 extra A1 pages
- More sustainable design reduces CO2e up to 7.3 tons/year by units sold by using up to 30% recycled plastic.6

### Fits the way you work

- Avoid waiting by the printer with high-speed printing as fast as 26 seconds per A1 plot.
- Be more productive—save time from job prep to final print by printing your projects up to 2x
- Print your jobs and manage your plotter from virtually anywhere, anytime with the HP Smart
- Get high-quality results—HP Bright Office Inks plot up to 31% more line accuracy and up to 65% more gamut.7

## For more information, please visit http://www.hp.com/go/designjett650

This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: More at: http://www.hp.com/learn/ds

<sup>&</sup>lt;sup>1</sup> The HP DesignJet T600 Printer series and the HP DesignJet Studio Printer series are the only solutions providing seamless printing of both large- and small-format sheets automatically in a multi-size print basket

compared to competitive alternatives with comparable size and features as of January, 2020.

Three-click printing with HP Click software compared to up to 11 clicks with competitive alternatives when printing 5 files of different sizes. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files. Based on testing the HP DesignJet T650 36-in Printer, from job prep to print is up to 2x faster than competitive alternatives with comparable size and features as of January, 2020.

3 One-click printing with HP Click software. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files.

4 HP DesignJet T650 36-in series printers are up to 17% smaller compared to competitive alternatives with comparable size and features as of January, 2020. The world's smallest large-format plotters based on most

Based on HP internal testing, January 2020, comparing the HP DesignJet T200 Printer, that uses the same ink and print mode as the HP DesignJet T600 Printer series, and Canon TM-200 and TM-300 Printers in terms of

ink used during routine printhead cleanings.

ink used during routine printnead deanings.

6 More sustainable design compared to the previous printer models (HP DesignJet T500 Printer series) replaced with the HP DesignJet T600 Printer series. Based on calculations in accordance with ISO 14040/14044 Life Cycle Assessments using ReCiPe (H) v. 1.1 (2016) on GaBi 8.5 (2018) software and scaled to reflect expected yearly sales.

7 Up to 31% more line accuracy based on HP internal testing, September 2019 of 1 pixel vertical line straightness comparing prints from the HP DesignJet T600 Printer series and Canon TM-305 Printer on plain paper using equivalent fast/draft print modes. Up to 65% more colour gamut based on HP internal testing, September 2019, of gamut volume comparing prints from the HP DesignJet T600 Printer series and Canon TM-305

Printer on Oce 75gsm plain paper using equivalent fast/draft print modes

## **Technical specifications**

Print	
Print speed	26 sec/page on A1, 81 A1 prints per hour <sup>1</sup>
Print resolution	Up to 2400 x 1200 optimised dpi
Technology	HP Thermal Inkjet
Margins	Roll: 5 x 5 x 5 x 5 mm Sheet: 5 x 5 x 5 x 5 mm
Ink types	Dye-based (C, M, Y); pigment-based (K)
Page Yield	20 ml of ink yields 101 A1 pages, taking into account maintenance routines <sup>2</sup>
Ink drop	5.5 pl (C, M, Y); 12 pl (K)
Printheads	1 (cyan, magenta, yellow, black)
Printhead nozzles	1376
Line accuracy	±0.1% <sup>3</sup>
Minimum line width	0.02 mm
Max optical density	8 L* min/2.10 D <sup>4</sup>
Media	
Handling	Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter
Roll size	279 to 610 mm
Sheet size	Auto sheet feeder: 210 x 279 to 330 x 482 mm manual feed: 210 x 279 to 610 x 1897 mm
Standard sheets	Auto sheet feeder: A4, A3 manual feed: A4, A3, A2, A1
Grammage	60 to 280 g/m² (roll/manual feed); 60 to 220 g/m² (auto sheet feeder)
Thickness	Up to 0.3 mm
Applications	Line drawings; Presentations; Renderings
Memory	1 GB
Hard disk	None
Connectivity	
Interfaces	Gigabit Ethernet (1000Base-T), Hi-Speed USB 2.0, Wi-Fi 802.11a/b/g/n, Wi-Fi Direct
Print languages (standard)	HP-GL/Z, HP-RTL, CALS G4, JPEG, URF
Printing paths	Print Anywhere with HP Smart app, HP Click, HP driver for macOS, HP driver for Windows, printing support for Chrome OS, email printing, HP Print Service Plugin for Android, Apple AirPrint
Drivers	Raster driver for Windows and macOS
Dimensions (w x d x h)	
Printer	1013 x 605 x 932 mm
Shipping	1155 x 575 x 475 mm
141-1-ba	
Weight	
Printer	29.5 kg
	29.5 kg 38 kg
Printer	-
Printer Shipping	38 kg  HP DesignJet T650 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges,
Printer Shipping What's in the box	38 kg  HP DesignJet T650 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges, spindle, quick reference guide, setup poster, power cord  HP Click, HP Smart app, HP Print Preview for Windows, HP Easy Start, HP DesignJet Utility for Windows, HP Support
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Printer Shipping What's in the box HP Software and solutions Remote print enabled One-click multi-size printing	38 kg  HP DesignJet T650 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges, spindle, quick reference guide, setup poster, power cord  HP Click, HP Smart app, HP Print Preview for Windows, HP Easy Start, HP DesignJet Utility for Windows, HP Support Assistant  Yes
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Printer Shipping What's in the box HP Software and solutions Remote print enabled One-click multi-size printing Environmental ranges Recycled plastic in printer Operating temperature	38 kg  HP DesignJet T650 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges, spindle, quick reference guide, setup poster, power cord  HP Click, HP Smart app, HP Print Preview for Windows, HP Easy Start, HP DesignJet Utility for Windows, HP Support Assistant  Yes  Yes  30%  5 to 40°C
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# Ordering information

Product
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5HB08A HP DesignJet T650 24-in Printer

B3Q36A HP DesignJet 24-in Spindle

### Original HP printing supplies

HP 713 DesignJet Printhead Replacement Kit HP 712 29-ml (yan DesignJet Ink Cartridge HP 712 29-ml Nagenta DesignJet Ink Cartridge HP 712 29-ml Yellow DesignJet Ink Cartridge HP 712 38-ml Black DesignJet Ink Cartridge HP 712 80-ml Black DesignJet Ink Cartridge HP 713 3-pack 29-ml Yellow DesignJet Ink Cartridge HP 712 3-pack 29-ml Magenta DesignJet Ink Cartridge HP 712 3-pack 29-ml Myellow DesignJet Ink Cartridge

SED/34 HP 1/12.3-pack.29-fill Yealow Designer from a frinting materials, to experience consistent high quality and reliable performance that enable less downtime. These critical components are designed and engineered together as an optimized printing system, and Original HP inks are designed to maximize the life of HP printheads. Protect your HP printer investment by using Original HP inks for full HP warranty protection. For more information, visit hp.com/go/OriginalHPinks.

### Original HP large format printing materials

Q1396A HP Universal Bond Paper (FSC® certified)<sup>5</sup> (recyclable)<sup>6</sup> 610 mm x 45.7 m C6019B HP Coated Paper (FSC® certified)<sup>5</sup> (recyclable)<sup>6</sup> 610 mm x 45.7 m C6029C HP Heavyweight Coated Paper (FSC® certified)<sup>5</sup> (recyclable)<sup>6</sup> 610 mm x 30.5 m For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.

### Service and Support

UDSHOPE HP 1 year Post Warranty Next Business Day Hardware Support for DesignJet T650 24-in UDSH7PE HP 2 year Post Warranty Next Business Day Hardware Support for DesignJet T650 24-in UDSJ3PE HP 1 year Post Warranty Parts Coverage Hardware Support for DesignJet T650 24-in UDSJ3PE HP 2 year Post Warranty Parts Coverage Hardware Support for DesignJet T650 24-in UD6C3E HP 3 year Next Business Day Hardware Support for DesignJet T650 24-in UD6C4E HP 4 year Next Business Day Hardware Support for DesignJet T650 24-in UD6C6E HP 3 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 3 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 4 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 3 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 5 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 6 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 6 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 7 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 7 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support for DesignJet T650 24-in UD6C6E HP 8 year Parts Coverage Hardware Support f

# ECO highlights

- ENERGY STAR® certified¹ and EPEAT® Gold registered² Free, convenient HP ink cartridge recycling³ FSC®-certified papers and a range of recyclable HP media with a take-back program Reduces CO2e up to 7.3 tons/year by units sold by using up to 30% recycled plastic<sup>5</sup>

# Please recycle printing hardware and eligible printing supplies and prints. Find out how at our website: http://www.hp.com/ecosolutions

<sup>1</sup> ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental

I ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency,
2 EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.
3 Visit http://www.hp.com/recycle to see how to participate and for HP Planet Partners program features and availability, program may not be available in your area.
4 BMG trademark license code FSC®-C115319, see http://www.fs.corg. HP trademark license code FSC®-C115419, see http://www.fs.corg. HP printing materials are recyclable through commonly available recycling programs. For information about HP large format printing materials, please visit http://www.HPLFMedia.com.
5 More sustainable design compared to the previous printer models (HP Designlet T500 Printer series) replaced with the HP Designlet T600 Printer series. Based on calculations in accordance with ISO 1404011 Q442 Life Cycle Assessments using ReCiPe (H) v. 1.1 (2016) on GaBI 8.5 (2018) software and scaled to reflect expected yearly sales.

Nechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (bond) and Original HP inks. Actual performance may vary based on a variety of conditions, including but not limited to network configuration.

Calculation done taking into account two normal printhead cleanings and ink on an A1 CAD drawing with black and colour lines and a pixel coverage of 5.2%.

3 ±0.1% of the specified vector length or -0.2 mm (whichever greater) at 23°C, 50-60% relative humidity, on A0 printing material in Best or Normal mode with HP Heavyweight Coated roll feed and Original HP inks.

4 with HP Premium Instant Dry Photo Gloss media with Original HP inks.

5 BMG trademark license code FSC®-C115319, see http://www.fsc.org. HP trademark license code FSC®-C115319, see http://www.fsc.org.

6 Can be recycled through commonly available recycling programs.





















